

BINGHAM MINE FACT SHEET - JANUARY 1, 1979

1. HISTORICAL STATISTICS

- 1.1 The mine started operation in 1904. Since then, over 4.0 billion short tons (3 628 720 000 t) of ore and waste material have been removed. Through 1978; ore milled = 1,423,464,500 short tons (1 291 366 994 t); waste removed = 2,666,526,489 short tons (2 419 072 283 t); stripping ratio = 1.873:1; copper produced = 11,005,054 tons (9 983 785 t).
- 1.2 The Utah Copper Division produces about 14% of the nation's newly mined copper each year with by-products of gold, silver, molybdenum, platinum, palladium, and selenium.
- 1.3 The mine has many distinctions: It is the first open pit mine in the copper industry; it is the largest single mining operation ever undertaken; it has produced more copper than any individual mine in history; it is the world's largest man-made excavation.

2. GEOLOGY

- 2.1 The porphyry copper ore body is centered in and around a complex monzonitic stock.
- 2.2 Age of the monzonite is 37-million years (Tertiary). Age of surrounding sedimentary rocks (quartzite and limestone) ranges from 240 to 300 million years (Permian and Pennsylvanian).
- 2.3 Ore mineralization is genetically associated with the monzonitic stock.
- 2.4 Monzonite and monzonite porphyry are the most important host rocks. Some ore also occurs in the adjacent quartzite and metamorphosed limestones.